

Receiving Report

12/12/20

m 2 4080

ТНУОБЕНН

18656 18619

07/28/2029

N/A

Discrepancies

Discrepancies						
Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

12/12/21

All amounts are calculated in domestic currency.

ALL Vendors PO ID PO18619 Receipt Dates from 12/21/2012 to 12/21/2012

Item	Item ID/GL/WOs	All Rec. Employees	All Currencies
Item	Item ID/GL/WOs	All Rec. Employees	All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Qty	Recev Date/ Recev Emp	Recev Qty (PO U/M)	Cost Per Unit/ Recev Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PQ18619	3		M7075T6B1.000X1.0 f		12/19/2012	12/21/2012	12.0000	\$12.68	0.0000	0	\$152.12
CAD	No		7075 T6 BAR 1.00 f x1.00 124079		12.0000	DESJ02		\$152.12	0.0000	0	
	4		M303B1.000X03.000 f		12/19/2012	12/21/2012	25.0000	\$50.21	0.0000	0	\$1,255.34
	No		303 BAR 1" X 3' f 124079		24.0000	DESJ02		\$1,255.34	0.0000	0	
	5		M174R0.750 f		12/19/2012	12/21/2012	36.0000	\$5.18	0.0000	0	\$186.59
	No		17-4 round bar .750 f 124079		36.0000	DESJ02		\$186.59	0.0000	0	
	6		M7075T6B1.500X1.5 f		12/19/2012	12/21/2012	12.0000	\$16.10	0.0000	0	\$193.23
	No		7075 T6 BAR 1.500 f x 1.500 124079		12.0000	DESJ02		\$193.23	0.0000	0	
Total Received Quantity:											85.0000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$1,787.27
Total Balance Due Quantity:											0.0000

B I L L O F L A D I N G

No: PEC 800500

Ship From:

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Tel: 613-632-9577 Fax: 613-632-1053

Ship Date 20Dec12 at 15:29 From PFW

Probill

Via VIM TRANSFER

FOB CONCORD

Frt PREPAID

Route 0- 0 Manifest

Vhcle Trailer

Slp STAN IVERS (905-532-1350)

Sold To: (20115)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

088

B I L L O F L A D I N G

1) Our Order PEC-519540- 1 Your PO # 18619 ADD ON

Part # 4-6 DAYS A.R.O

ALUMINUM SQUARE BAR 7075-T651

1.00" X 144.0000"

** \$225.00 MIN ORDER **

Heat Number
MA20125516Tag No
135300Quantity
12 FTPCS 1 MTR Wt LBS
15

2) Our Order PEC-519540- 2 Your PO # 18619 ADD ON

STAINLESS STEEL FLAT BAR 303CD

1.00" X 3.00" X 150.0000"

Heat Number
253093Tag No
546432Quantity
25 FTPCS 2 MTR Wt LBS
254

3) Our Order PEC-519540- 3 Your PO # 18619 ADD ON

ALUMINUM SQUARE BAR 7075-T651

1.50" X 144.0000"

Heat Number
MA0120030015Tag No
135302Quantity
12 FTPCS 1 MTR Wt LBS
33

4) Our Order PEC-519540- 4 Your PO # 18619 ADD ON

STAINLESS STEEL ROUND BAR 17-4 STAINLESS

.750" DIA X 144.0000"

Heat Number
G19883Tag No
135359Quantity
36 FTPCS 3 MTR Wt LBS
53

TOTAL: Tags 4 PCS 7 LBS 355

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Rup/20

2 tube
1 planche
1 bundle

(4) G.C

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

SHIP FROM: THYSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

SHIP TO: (1)
DART AEROSPACE

NO: PEC 800500
SHIP DATE 20Dec12 at 15:29 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

B I L L O F L A D I N G
*** Chemical Analysis ***

Heat Number
253093
G19883

ADD ON TO 518871 SUR-CHARGE PAID SHIP TOGETHER

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL (1-4) 2 BDLS, 2 TUBES GW. 380 LBS

***** CLOSED FOR THE HOLIDAYS *****

ON DEC. 25TH & 26TH, 31ST & JAN. 1ST.

WE ARE OPENED FOR BUSINESS ON DEC. 24, 27 & 28.

HAVE A HAPPY HOLIDAY SEASON!

*CUSTOMER PICK-UP HRS AT THYSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

ADDED TO EVERY ORDER.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.

MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Certified Inspection Report

09/22/12
00:25:06

Alcoa Inc.
Massena Operations
Park Avenue East, Massena, NY 13662



Customer
Copper Brass Sales

Customer P.O. No.
5400153340

Customer Part No.
(ALSQ00118)

Alcoa Order No.
MMC-A4121-010

Govt. Contract No.

Ship To
**Copper Brass Sales
13338 Orden Dr. Building
Santa Fe Springs, CA 906**

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet.
Manufactured under an ISO/TS 16949 registered quality management system
Melted and manufactured in the USA.

Zhou Wang, Quality Assurance Manager

Date Shipped **09/21/12** Weight Shipped **1,462 lbs**

Alloy - Temper **7075-T651**

Size **1.00000 IN**

Product **CFRB-CF SQ** Shape **SQ** Config **12 FT**

BOL **000160586**
QRR

Specifications:

AMS 4123H (Except Marking)
QQA-225/9E
AMS-QQA-225/9
ASTM B21-12
Material conforms to T6 requirements

Product produced and marked to the requirements of AMS-QQA-225/9 also meets the requirements of QQA-225/9.
Product produced and marked to the requirements of QQA-225/9 also meets the requirements of AMS-QQA-225/9.

TEST REQUIREMENTS

Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
U.T.S.	T.Y.S.	%Elong							
Max:									
Min:									

Test Results	No. of Tests	Test	Test	Test	Test	Test	Test	Test	Test
Lot / Work Order		U.T.S.	T.Y.S.	%Elong					
MA20125516	4	Max: 83.7	77.3	15.5					
		Min: 82.6	76.2	15.0					

When 2 or more tests per lot are made, the highest and lowest values are reported.
Analysis obtained from one or more samples in this lot.

TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI
T.Y.S. Tensile Yield Strength KSI

Aluminum Association Chemical Composition Limits (in Weight %)	%SI	%FE	%CU	%Mn	%MG	%CR	%ZN	%TI	%Others	%Others	%AL
ALLOY											
7075	MAX 0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	Rem
	MIN		1.2		2.1	0.18	5.1		Each	Total	

Actual Started Chemistry	%SI	%FE	%CU	%Mn	%MG	%CR	%ZN	%TI	%OE	%OT	%AL
LOT/WORK ORDER											
MA20125516	MAX 0.06	0.14	1.7	0.02	2.5	0.20	5.9	0.03	L.T. 0.05	L.T. 0.15	Rem
	MIN 0.06	0.14	1.6	0.02	2.4	0.19	5.7	0.03			

NOTES:

Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.
This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

These certifications are for:

Delivery #: **2402207845**

Qty: **180**

By: **Shane L. Robles**

Quality check

Acciaierie Valbruna s.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

54-151410

2

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Clienti / Beseller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Usine productrice

Avviso di Spedizione: D-VH12021835
Lieferanzsige/Packing list/SL

Ordine nr: 33807 STOCK CAROL STR
Bestell./Your order/Commande

Tipo di Elaborazione: E+AOD
Erzeugungsart/Working process/Mode de fabrication

Certificato nr: MEST225671/2012/
Prüfung/Test/Essai

Conferma ordine nr: EH12005792
Werkz./Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice



Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pointon de l'essayeur



Stato di fornitura: - Annealed Cold Drawn
Lieferzustand/Delivery state/Etat de livraison

Specifiche:
Anforderungen / Requirements / Exigences

VS1 0 303 A,CF
AMS 5840 U TYPE1 A
ASTM A320 2011A B8F (1)
MIL-S-882 B/1 303

AISI 303
ASME SA320 2010 B8F (0)
ASTM A370 2011A
QQ-S-784 B/2 303 A

AMS 5840 U S30300 A
ASTM A314 2008 S30300
ASTM A582 2012 S30300 A

(0) SEC.II PT.A 2010 EDITION ADD. 2011a
(1) Chemical analysis only.

(0) Chemical analysis only.

Qualità: 303

Werkstoff/Grade/Matériau

Marca: AU188Z/P

Tolleranza: ASTM A484-10
Toleranz/Allowance/Tolérance

Punzonatura: 303
Kennzeichnung/Marking/Marque

Pos. nr. Pos. nr. Nr. de poste	Oggetto Gegenstand Product description Descr. du produit	Dimensioni - in Abmessungen Dimension Dimension	Lunghezza - in Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr.
0080	Flat	3,0000 x 1,0000	137 / 150	253093		2.017	124300080

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf lieferbarem produkt test a l'état de fourniture Prueba sobre el material así como entregado

TEST	Provetta/Probestab Specimen/Probestab Long. diam. Spec. Basis Diam. Dims. Weld Diam. Thickness Long. diam. Spec. mm	°F	Poiz. Saggio Poisson Elongation %	Snervamento Streckgrenze Yield Stress Rp 0,2% k.s.l.	Snervamento Streckgrenze Yield Stress Rp 0,2% k.s.l.	Resistenza Zugfestigkeit Tensile strength Rm k.s.l.	Allungamento Bruchdehnung Elongation Allongement %	Strizione Einziehdehnung Reduction of area Striction %	RA %	Resilienza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max									140 255
A	12,5	68	L	69		100	40		53		237

TEST	min	max
A	Grain size for ASTM E112	5

1) L=longitudinale/longs, T=transversale/quer, Q=Trasversale/tangential

Mechanical properties according to ASTM A370.

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata/Heat Schmelze/Coulée	min - max 0,150	1,00	1,50 2,00	17,00 19,00	0,80	1,00	8,00 10,00	0,100	0,25 0,35	0,400	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %			
253093	0,037	0,32	1,74	17,16	0,47	0,47	8,21	0,125	0,030	0,33	0,006			

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940°F for 1 h/water.
Micro and macro etch test: OK
Material is DFARS Compliant

DAS
14
8-89 12/12/24

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind in Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimiscelazione: OK
Verwechslungsprüfung: spektralanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfatta la esigenza
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional check: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.
The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TUEV and LLOYD'S

Vicenza, 13/07/12 VCC008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402214405

Part: PO: PEC# 244448

Wgt: 254.000 LB Date 12/17/2012

John R. Zambetti

Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cliant
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Item/Usine producer

Stato di fornitura: - Annealed Cold Drawn
Lieferzustand/Delivery state/Etat de livraison

Avviso di Spedizione: D-VI12021835
Lieferanzsige/Packing list/B.L.

Ordine nr: 93807 **STOCK CAROL STR**
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Erzeugungsmethode/Melting process/Mode d'elaboration

Certificato nr: MEST225671/2012/
Prüfung/Test/Essai

Conferma ordine nr: E112005792
Werkz/Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice



Funzione del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Poinçon de l'essayeur



Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 13/07/12

VC0008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine
M. Rizzotto

Pagina - 2 di 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402214405

Part: PO: PEC# 244448

Wgt: 254.000 LB Date 12/17/2012

John R. Zambetti

Certified Inspection Report

06/30/12
00:25:14

Alcoa Inc.
Massena Operations
Park Avenue East, Massena, NY 13662



3

Customer
Copper Brass Sales
Customer P.O. No. **5400746469**

Customer Part No. **(ALSC00010)**
Alcoa Order No. **MMC-A3532-010**

Govt. Contract No.

Ship To
Copper Brass Sales
13338 Orden Dr. Building
Santa Fe Springs, CA 906

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under an ISO/TS 16949 registered quality management system Melted and manufactured in the USA.

Zhou Wang, Quality Assurance Manager

Date Shipped **06/29/12** Weight Shipped **724 lbs** Product **CFRB-CF SQ. Specific Length** BOL **000160411**
Alloy - Temper **7075-T651** Size **1.50000 IN** Shape **SQ** Config **12 FT** QRR

Specifications:
AMS 4123H (Except Marking)
QQA-225/9E
AMS-QQA-225/9E
ASTM B21-1-12
Material conforms to T6 requirements

Product produced and marked to the requirements of AMS-QQ-A-225/9 also meets the requirements of QQ-A-225/9.
Product produced and marked to the requirements of QQ-A-225/9 also meets the requirements of AMS-QQ-A-225/9.

TEST REQUIREMENTS									
Max:	Test	U.T.S.	Test	T.Y.S.	Test	%Elong	Test	Test	Test
	U.T.S.	77.0	Test	66.0	Test	07.0	Test	Test	Test
Min:									

Test Results									
Lot / Work Order	No. of Tests	U.T.S.	T.Y.S.	%Elong	Test	Test	Test	Test	Test
MA012003015	1	Max: 81.9	74.5	15.5					
		Min: 81.9	74.5	15.5					

TEST ABBREVIATIONS			
U.T.S.	Ultimate Tensile Strength KSI	T.Y.S.	Tensile Yield Strength KSI
Aluminum Association Chemical Composition Limits (in Weight %)		%Elong	Elongation % in 2"

Alloy									
7075									
MAX	%SI	%FE	%CU	%Mn	%MG	%CR	%ZN	%TI	%Others
0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15
MIN		1.2		2.1	0.18	5.1		Each	Total

Actual Started Chemistry									
LOT/WORK ORDER									
MA012003015	MAX	%SI	%FE	%CU	%Mn	%MG	%CR	%ZN	%TI
	MIN	0.05	0.14	1.7	0.01	2.5	0.19	5.8	0.02
								L.T	L.T
								0.05	0.15
								Rem	Rem

NOTES:

Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.
This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

From: ThyssenKrupp Materials NA
Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2402207844
Part: PO: PEC# 244448
Wgt: 33.000 LB Date 12/12/2012

348
12/12/24

John A. Smith

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL ROUND BAR 17-4 STAINLESS
.750" DIA X 144.0000"
PART NO.

PO/Rel 18619 ADD ON

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-800500-004

20Dec12

Signed by: _____ Pg 1/2

CERTIFICATE OF TESTS

CERT SERIAL# 000848487



TALLEY METALS
A Carpenter Company

Talley Metals Technology, Inc.
205 Talley Metals Lane
McBee, SC, 29101 Tel: (610) 208-2000 (800) 338-4592

12/03/12

CUSTOMER/BESTELLER/CLIENT

COPPER & BRASS SALES
22355 W ELEVEN MILE
SOUTHFIELD, MI 48034

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES IDENTIFIED WITH T-1 TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

SELLER/VERKAUFER/VENDEUR PAGE 1 OF 2

TALLEY METALS TECH, INC.

ACCOUNTS PAYABLE
P. O. BOX 2498
HARTSVILLE, SC 29551

CUSTOMER ORDER NO./BESTELL.-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
5400158467-0050	TLY170701 L16636	12/03/12	3250.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:

G19883

UNS NUMBER S17400

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED COLD FINISH

SPECIFICATION: TALLEY 174-T1A CAP OF H900 (01/11/99)

AMS 2303 REV F (08/ /10)
AMS 2315 REV F (01/ /08)
AMS 5643 REV R (02/ /08)
ASTM-A484-11
ASTM-A564-10
ASME-SA564 2011 EDITION (TYPE 630)
ASTM-F899-12

SIZE 0.750000 IN. (19.05 MM) RD BAR

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN (XRF)	SI (XRF)	P (XRF)	S (COM)	CR (XRF)
0.028	0.76	0.30	0.021	0.025	15.29
NI (XRF)	MO (XRF)	CU (XRF)	N (FUS)	CB (XRF)	TA (XRF)
4.24	0.33	3.81	0.034	0.25	LT .01

CB+TA
0.26

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES
THIS MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS
OPERATIONS QUALITY PROGRAM MANUAL REVISION 30, DATED 09/28/11.

MILL HEAT TREATMENT:

TYPE SOL ANL
TEMP 1900F
TIME (BATCH FURNACE) 1.20 HOURS
QUENCH WATER

DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED 311HBW (33HRC)

MICROSTRUCTURE - FERRITE

MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

CAPABILITY

900 F(482 C), 01 HR AIR COOL

HARDNESS 442HBW (47HRC)

DAS
14 12/12/24
9-89

CONTINUED ON NEXT PAGE

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die ausgetragenen Daten oder Zertifizierungen.
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From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402207840

Part: PO: PEC# 244448

Wgt: 53.000 LB Date 12/12/2012

John R. Zambetti

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL ROUND BAR 17-4 STAINLESS

.750" DIA X 144.0000"

PART NO:

PO/Rel 18619 ADD ON

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-800500-004

20Dec12

Signed by: Pg 2/2

CERTIFICATE OF TESTS		ABNAHMEPRUEFZEUGNIS		CERTIFICAT DE CONTROLE	
<p>CERT SERIAL# 000848487</p> <p>TALLEY METALS A Carpenter Company</p> <p>Talley Metals Technology, Inc. 205 Talley Metals Lane McHes, SC. 29101 Tel: (610) 208-2000 (800) 338-4592</p> <p>12/03/12 CUSTOMER/RESELLER/CLIENT</p> <p>COPPER & BRASS SALES 22355 W ELEVEN MILE SOUTHFIELD, MI 48034</p> <p>SEILER/VERKÄUFER/VENDEURPAGE 2 OF 2</p> <p>TALLEY METALS TECH, INC. ACCOUNTS PAYABLE P. O. BOX 2498 HARTSVILLE, SC 29551</p>					
CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE		CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE		DATE/DATUM/DATE	
5400158467-0050		TLY170701 L16636		12/03/12	
WEIGHT/GEWICHT/POIDS		3250.000			
HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:		G19883			
CAPABILITY		UNS NUMBER S17400			
900 F (482 C), 01 HR		AIR COOL			
(T) RANSVERSE (L) ONGITUDINAL		L			
YIELD STRENGTH, (0.20 %) KSI (MPA)		204.0 (1407)			
TENSILE STRENGTH, KSI (MPA)		206.0 (1420)			
ELONGATION IN 1.40", %		11.0			
REDUCTION OF AREA, %		53.0			
<p>NO WELD REPAIR PERFORMED</p> <p>MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.</p> <p>WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN50049)</p> <p>SSRD01402</p> <p>STEPHANIE E. MCCULLUM QUALITY ASSURANCE ENGINEER CARPENTER TECHNOLOGY CORPORATION</p> <p>12/12/24</p> <p><i>Stephanie E. McCullum</i></p>					

FORM 12-305

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Die vorliegende Zertifikatierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt keine Haftung für die aus diesem Zertifikat resultierenden Daten oder Zertifikatierungen.
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From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402207840

Part: PO: PEC# 244448

Wgt: 53.000 LB Date 12/12/2012

John L. Zambetti

DART
aerospaceDart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053**PURCHASE ORDER**Purchase Order ID **PO18619**Purchase Order Date 12/11/12
PO Print Date 12/11/12

Page Number 1 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO ON M5W 5V8
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

905 669 9444

905 738 9033

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA**FAKED**
*12/12/12**12/12/12 12/12/12*

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M304S18GA	304/316 .050 Sheet	12/19/12 Yes	320.00 sf	Yours ppd	\$3.2812	\$1,050.00

Special Inst: MATERIAL: AISI 304/316 SS SHEET
ANNEALED 2B FINISH
AS MIL-S-5059 OR AMS 5513 (304) OR
AMS 5524 (316)
OR ASTM A240 OR ASME SA240PLEASE NOTE: DO NOT DELIVER
BEFORE THE 17 OF DECEMBERRECEIVING WILL BE CLOSE
DECEMBER 13 AND 14 FOR
INVENTORY

2	M304S20GA	304/316 .040 Sheet	12/19/12 Yes	320.00 sf	Yours ppd	\$2.4844	\$795.00
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Special Inst: MATERIAL: AISI 304/316 SS SHEET
ANNEALED 2B FINISH
AS MIL-S-5059 OR AMS 5513 (304) OR
AMS 5524 (316)
OR ASTM A240 OR ASME SA240

PO Instructions:

NO: PEC ST-518482 NO: PEC ST-514021
NO: PEC ST-515417 NO: PEC ST-513880No substitution or deviation without
consent.Certificate of Conformity or Material
Certification required - YES NO

Change Nbr:

2

Change Date: 12/11/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO18619**

Purchase Order Date 12/11/12

PO Print Date 12/11/12

Page Number 2 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

905 669 9444

905 738 9033

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

3	M7075T6B1.000X1.000	7075 T6 BAR 1.00 x1.00	12/19/12 Yes	12.00 f	Yours ppd	\$12.5959	\$151.15
		Special Inst:	MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11				
4	M303B1.000X03.000	303 BAR 1" X 3'	12/19/12 No	24.00 f	Yours ppd	\$49.8942	\$1,197.46
		Special Inst:	MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE				
5	M174R0.750	17-4 round bar .750	12/19/12 Yes	36.00 f	Yours ppd	\$5.1500	\$185.40
		Special Inst:	MATERIAL: 17-4 PH/S17400 TYPE 630 SS ROUND BAR AS PER AMS 5643 OR ASTM A564				
6	M7075T6B1.500X1.500	7075 T6 BAR 1.500 x 1.500	12/19/12 Yes	12.00 f	Yours ppd	\$16.0000	\$192.00
		Special In-	MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11				

PO Instructions:

NO: PEC ST-518482 NO: PEC ST-514021
NO: PEC ST-515417 NO: PEC ST-513880

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required - YES NO

Change Nbr:

2

Change Date: 12/11/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO18619**

Purchase Order Date 12/11/12

PO Print Date 12/11/12

Page Number 3 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name
Vendor Phone
Vendor Fax
Vendor Account Nbr

905 669 9444
905 738 9033

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

125028

7	M6061T6B0375X00.750	6061T6 BAR .375 x .750	12/19/12 Yes	✓ 24.00 f	Yours ppd	\$2.5000	\$60.00 ~
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Special Inst: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR ASTM B211 OR ASTM B221

8	M6061T6R0.500	6061-T6 Round Bar .500"	12/19/12 Yes	+ 48.00 f	Yours ppd	\$1.2000	\$57.60
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Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/ T62) ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116) OR QQ-A-200/8OR AMS-QQ-A-200/8)OR AMS 4160) OR ASTM B211 OR ASTM B221

9	M6061T6R0.563	6061-T6 ROUND BAR .563	12/19/12 Yes	✓ 300.00 f	Yours ppd	\$0.6067	\$182.01
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Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/ T62) ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116) OR QQ-A-200/8OR AMS-QQ-A-200/8)OR AMS 4160) OR ASTM B211 OR ASTM B221

PO Instructions:

NO: PEC ST-518482 NO: PEC ST-514021
NO: PEC ST-515417 NO: PEC ST-513880

No substitution or deviation without consent.
Certificate of Conformity or Material Certification required - YES NO

Change Nbr:

2

Change Date: 12/11/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO18619**

Purchase Order Date 12/11/12

PO Print Date 12/11/12

Page Number 4 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

905 669 9444

905 738 9033

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

10	M6061T6R0.750	6061-T6 Round Bar .750"	12/19/12 Yes	48.00 f	Yours ppd	\$1.0292	\$49.40
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Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/
T62) ROUND BAR
QQ-A-225/8 OR AMS-QQ-A-225/8 OR
(AMS 4117/4128/4115/4116)
OR QQ-A-200/8OR AMS-QQ-A-200/8)OR
AMS 4160)
OR ASTM B211 OR ASTM B221

11	M6061T6R3.500	6061 RD bar 3.50	12/19/12 Yes	12.00 f	Yours ppd	\$22.3250	\$267.90
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Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/
T62) ROUND BAR
QQ-A-225/8 OR AMS-QQ-A-225/8 OR
(AMS 4117/4128/4115/4116)
OR QQ-A-200/8OR AMS-QQ-A-200/8)OR
AMS 4160)
OR ASTM B211 OR ASTM B221

12	M6063T5A0.750W.063	Angle6063T5 .750 X.750 X.063w	12/19/12 Yes	21.00 f	Yours ppd	\$1.4286	\$30.00
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PO Total:

\$4,217.92

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

PO Instructions:

NO: PEC ST-518482 NO: PEC ST-514021
NO: PEC ST-515417 NO: PEC ST-513880

Change Nbr:

2

Change Date: 12/11/12

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required - YES NO